Claims

[c1]	1. A method for the regeneration of a plant comprising the steps of:
, A.	a) providing a plant explant comprising a shoot meristem or primordia;
	b) culturing the explant in a media comprising an apical dominance inhibitor in
•	a manner inducing bud or shoot formation from the explant; and
	c) rooting the explants containing buds or shoots to produce a plant.
[c2]	2. The method of claim 1, wherein said media also contains an auxin or a
	cytokinin.
[c3]	3. The method of claim 2, wherein said auxin is IAA.
[c4]	4. The method of claim 2, wherein said cytokinin is BA or ZR.
[c5]	5. The method of claim 1, wherein said apical dominance inhibitor is dikegulac.
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[c6]	6. The method of claim 5, wherein the dikegulac is a salt.
[c7]	7. The method of claim 5, wherein the dikegulac is a free acid.
[c8]	8. The method of claim 5, wherein the dikegulac is Atrimmec .
	9. The method of claim 5, wherein the dikegulac is present at a concentration
	from about 5 to about 5000 mg/L.
[c10]	10. The method of claim 9, wherein the dikegulac is present at a concentration
	from about 10 to about 1000 mg/L.
[c11]	11. The method of claim 1, wherein said plant is a dicotyledonous plant.
[c12]	12. The method of claim 11, wherein said plant is a cotton plant.
[c13]	13. The method of claim 12, wherein said cotton plant is SG747, SG125, HS26,
dies !	PM2379, DP\$88, STVL474, DP50, or other commercial variety or elite line.
[c14]	14. The method of claim 11, wherein said plant is a soybean plant.
[c15]	15. The method of claim 1, wherein said explant is the zygotic embryo or an
2	explant portion thereof.

[c16] 16. The method of claim 1, wherein said explant is a node, the cotyledonary node, shoot tip, or an explant portion thereof. [c17] 17. The method of claim 1, wherein said explant is an in vitro-produced shoot, tissue culture, shoot culture, or portion thereof. [c18]18. The method of claim 1, wherein the media is MS, MS/B5, GD1, Gamborg's media, WPM, modified LP, DKW, Nitsch and Nitsch media, or Schenk and Hildebrandt media, or modifications therefrom. [c19] 19. A method for the regeneration of a transgenic plant comprising the steps of: a) providing an explant of a plant comprising a shoot meristem or primordia; b) introducing a recombinant DNA vector into the explant to generate a transformed explant; c) culturing the transformed explant in a media comprising an apical dominance inhibitor in a manner inducing bud or shoot formation from the transformed explant; and d) rooting the transformed explants containing buds or shoots to produce a transgenic plant. [c20] 20. The method of claim 19, wherein the recombinant DNA vector is transformed into the explant after in vitro bud or shoot formation in culture. [c21] 21. A transgenic plant produced from the method of claim 19, and progeny derived therefrom. [c22] 22. A method of wounding shoot meristems or primordia for the purpose of Agrobacterium - mediated transformation, comprising the steps of a. adding a suspension of magnetic particles to meristems or primordia to form a mixture; and \ b. moving the particle suspension and meristem mixture within a magnetic field.

23. The method of claim 22, wherein the magnetic particle suspension also

contains Agrobacterium.

[c23]